

**ANSYS Workbench Class3****Error Report****ERROR NO:**

WB2013-01

**Keywords:**

AVERAGED CONTOUR RESULTS      UNAVERAGED CONTOUR RESULTS      SOLIDS  
SHELLS

**Description of Error:**

Within the Mechanical Application User's Guide (at Using Results> Result Definitions), the section titled Averaged vs. Unaveraged Contour Results is incorrect for solids and shells. The documentation (text and diagram) explaining the averaging of element nodal results like stresses and strains (but not degree of freedom results like displacements and temperatures) applies only to line elements and is not applicable to solid and shell elements. The text describes that the averaged value at the mid-side is the average of the unaveraged values at the corners, which is only correct for line elements. The diagram containing 2D solid elements is misleading in that for the mid-side nodes, the averaged value is actually the average of the averaged values at the corners.

**Typical GUI Path(s):**

// Mechanical Application User's Guide // Using Results // Result Definitions // Averaged vs. Unaveraged Contour Results

**Other Comments:**

For solid and shell elements, the averaged value at the mid-side is the average of the averaged values at the corners. Also note that nodal averaging in post-processing may be done differently in ANSYS

Mechanical APDL.

**First Incorrect Version:**

Release 14.5

**Corrected In:**

Release 15.0

**Suggested User Action For Running on Uncorrected Version:**

See Other Comments section for description of averaging for shells and solids.

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